ELSEVIER

Journal of Materials Processing Technology 152 (2004) 401–402

Journal of Materials Processing Technology

www.elsevier.com/locate/jmatprotec

Author Index of Volume 152

Acarer, M., 91
Alighanbari, H., 84
Arjun, T.S., 323
Ashbridge, M.T.J., 116
Attanasio, A., 176

Bariani, P.F., 395
Bataller, H., 215
Becze, C.E., 266
Bellucci, F., 97
Belur, B.K., 204
Ben Younes, J., 237
Benavidez, E., 299
Bergström, J., 228
Bouaziz, Z., 237
Boude, S., 246
Bruschi, S., 395

Cabezas, C., 384
Caruso, R., 299
Çiçek, A., 291
Ceretti, E., 176
Chakraborty, D., 127
Chandra, S., 9
Chen, B.K., 221
Chen, D.J., 62
Chen, J., 35
Cheon, J.-S., 106
Coddet, C., 43
Cogun, C., 316
Costa, I., 1

Dal Negro, T., 395
De Fenzo, A., 97
Delgado, F., 384
de Sanctis, O., 299
Dessoly, M., 66
Diaz, C., 284
Dicharry, C., 215
Dixit, U.S., 9
Douglas, J.R., 162
Dwivedi, D.K., 323

Ebrahimi, R., 136
El-Gallab, M.S., 23
Faria, R.N., 1
Fenineche, N.-E., 43

Giardini, C., 176
Gilmour, K.R., 116
Giorleo, G., 97
Grabiec, A.M., 197
Graciaa, A., 215
Grandhi, R.V., 204

Gülesin, M., 291

Harinath, V., 185
Hinds, B.K., 339
Hogmark, S., 228
Hornsby, P.R., 257
Hossein-Nejad, S., 272
Hu, N.S., 333

Ihm, D., 357
Im, Y.-T., 106

Jadoon, A.K., 257
Jahazi, M., 272
Jain, R.K., 17
Jain, V.K., 17
Jung, Y.-G., 276

Kacar, R., 91
Karatas, C., 77
Kha, H.N., 221
Kim, D.-H., 276
Kim, J.-Y., 357
Kim, S.-Y., 106
Kim, Y.-K., 276
Kishawy, H.A., 266
Kocer, A., 77
Koyama, H., 190
Krallics, G., 154
Krishnamurthy, R., 329
Kuhlman, G.W., 162
Kwon, S., 357

Lacarac, V., 370
Lachaise, J., 215
Lamaallam, S., 215
Leacock, A.G., 116
Le Calvez, C., 66
Lenard, J.G., 144, 154
Li, M.Q., 62
Lima, L.F.C.P., 1
Lin, Y., 363
Linkens, D.A., 304
Lou, J., 185
Lu, J., 56

Macías-García, A., 299
Malhotra, S.K., 329
Manabe, K.-i., 190
Marques, N., 389
McIntosh, D.G., 266
McMahon, C.A., 370
Mintzer, S.R., 299
Mkaddem, A., 246

Moller, J., 162
Montavon, G., 43

Najafizadeh, A., 136

Ong, T.S., 339

Paik, U., 276
Paulo Davim, J., 389
Peng, Y., 35
Persson, A., 228
Piasta, Z., 197
Potiron, A., 246

Ralph, B., 257
Ramkumar, J., 329
Rech, J., 66
Ruan, X., 35

Sahraoui, T., 43
Saito, F., 284
Sánchez, E.C., 284
Sandström, R., 131
Saritas, S., 77
Shi, X., 35
Shrader, D., 162
Singh, K., 323
Singh, S.K., 127
Sklad, M.P., 23
Smith, D.J., 370
Squillace, A., 97
Srinivasan, K., 127
Sung, T.-H., 276

Takiishi, H., 1
Talamantes-Silva, J., 304
Thakur, P., 323
Tierney, M.J., 370
Toh, C.K., 346
Torres M., E., 284
Tosun, G., 316
Tosun, N., 316
Tran, L., 162

Ünal, H.I., 77

Vaidya, H., 323
Varvani-Farahani, A., 84
Venkata Rao, R., 71

Wagoner, R.H., 190
Wang, L., 131
Wu, S.C., 62

Elsevier B.V.
doi:10.1016/S0924-0136(04)01176-8

Xing, Y.M., 56

Yang, H., 363

Yang, Y.Y., 304

Zghal, A., 237

Zhang, L.C., 333
Zhang, Z., 131
Zumelzu, E., 384

ELSEVIER

Journal of Materials Processing Technology 152 (2004) 403–408

Journal of Materials Processing Technology

www.elsevier.com/locate/jmatprotec

Subject Index of Volume 152

AA1050 alloy
Development of hot rolling practices for lithographic sheet using a thermo-mechanical and microstructural model of a reversing hot finishing mill, 221
Abrasive flow machining
Stochastic simulation of active grain density in abrasive flow machining, 17
Accumulative roll-bonding
An examination of the accumulative roll-bonding process, 154
Acoustic characterization
Acoustic characterization and prediction of surface roughness, 127
Active grain density
Stochastic simulation of active grain density in abrasive flow machining, 17
Admixture
Study on compatibility of cement–superplasticiser assisted by multicriteria statistical optimisation, 197
Air-cooling
Evaluation of non-uniform cooling effects for air-cooled forgings, 370
AISI 321 stainless steel
The development of an optimum manufacturing and material selection process for the fabrication of labyrinth seal strips, 272
Albite
Effects of grinding of the feldspar in the sintering using a planetary ball mill, 284
Aluminum
The effect of roll roughness on the rolling parameters during cold rolling of an aluminum alloy, 144
Analytic hierarchy process
Evaluation of metal stamping layouts using an analytic hierarchy process method, 71
Anisotropic conductive (adhesive) film (ACF)
Reliability and thermodynamic studies of an anisotropic conductive adhesive film (ACAF) prepared from epoxy/rubber resins, 357
Anisotropy
The influence of plastic strain ratios on the numerical modelling of stretch forming, 116
Anorthite
Effects of grinding of the feldspar in the sintering using a planetary ball mill, 284
Anorthoclase
Effects of grinding of the feldspar in the sintering using a planetary ball mill, 284

Barreling
A new method for evaluation of friction in bulk metal forming, 136
$BaTiO_3$
Influence of burnout process on pore structure and burnout microstructure in $BaTiO_3$-based Y5V materials, 276
Bending
Finite element modelling of unbending tests with damage approach and experimental verification, 246
Bending angle
Studies on laser forming of Ti–6Al–4V alloy sheet, 62
Brass
Temperature profiles and conditions for thermal fatigue cracking in brass die casting dies, 228
Bulk metal forming
Application of parallel processing in three-dimensional bulk forming finite element analysis, 106
Burnout process
Influence of burnout process on pore structure and burnout microstructure in $BaTiO_3$-based Y5V materials, 276

Cancellous bone
Dynamical experimental study of friction and wear behaviour of bovine cancellous bone sliding against a metallic counterface in a water lubricated environment, 389
Carbides
Alternative to chromium: characteristics and wear behavior of HVOF coatings for gas turbine shafts repair (heavy-duty), 43
Cement
Study on compatibility of cement–superplasticiser assisted by multicriteria statistical optimisation, 197
Cement paste
Study on compatibility of cement–superplasticiser assisted by multicriteria statistical optimisation, 197
Ceramic
Rheological properties of feedstocks prepared with steatite powder and polyethylene-based thermoplastic binders, 77
CFD
Evaluation of non-uniform cooling effects for air-cooled forgings, 370
Characterization
Influence of pH value and solvent utilized in the sol–gel synthesis on properties of derived ZrO_2 powders, 299
Chip
Tool performance and attainable surface quality during the machining of aerospace alloys using self-propelled rotary tools, 266
Citric-citrate
Performance and degradation analyses of traditional and ECCS canning tinplates in citric-citrate medium, 384
Coating
Alternative to chromium: characteristics and wear behavior of HVOF coatings for gas turbine shafts repair (heavy-duty), 43
Coefficient of friction
Alternative to chromium: characteristics and wear behavior of HVOF coatings for gas turbine shafts repair (heavy-duty), 43
Cold rolling
The effect of roll roughness on the rolling parameters during cold rolling of an aluminum alloy, 144
Constant friction factor
A new method for evaluation of friction in bulk metal forming, 136
Contact load
Sliding wear and friction behaviour of Al–18% Si–0.5% Mg alloy, 323

Elsevier B.V.
doi:10.1016/S0924-0136(04)01177-X

Cooling process
Geometric deviations in forging and cooling operations due to process uncertainties, 204
Crack
Temperature profiles and conditions for thermal fatigue cracking in brass die casting dies, 228
Cutter path strategies
A study of the effects of cutter path strategies and orientations in milling, 346
Cutting fluid concentrate
Cutting fluid emulsions produced by dilution of a cutting fluid concentrate containing a cationic/nonionic surfactant mixture, 215
Cutting fluid emulsion
Cutting fluid emulsions produced by dilution of a cutting fluid concentrate containing a cationic/nonionic surfactant mixture, 215

Damage
Finite element modelling of unbending tests with damage approach and experimental verification, 246
Data analyses
Roll load prediction—data collection, analysis and neural network modelling, 304
Database and FEM-assisted system
Blank holding force control in panel stamping process using a database and FEM-assisted intelligent press control system, 190
Deformation field
A rigid-plastic finite element analysis of temper rolling process, 9
Degradation
Performance and degradation analyses of traditional and ECCS canning tinplates in citric-citrate medium, 384
Die casting
Temperature profiles and conditions for thermal fatigue cracking in brass die casting dies, 228
Digital logic model
The development of an optimum manufacturing and material selection process for the fabrication of labyrinth seal strips, 272
Dilution
Cutting fluid emulsions produced by dilution of a cutting fluid concentrate containing a cationic/nonionic surfactant mixture, 215
Domain decomposition method
Application of parallel processing in three-dimensional bulk forming finite element analysis, 106
Drilling
Effect of workpiece vibration on drilling of GFRP laminates, 329
Dynamic profile
Dynamical experimental study of friction and wear behaviour of bovine cancellous bone sliding against a metallic counterface in a water lubricated environment, 389

Edge cracking
An examination of the accumulative roll-bonding process, 154
Elastoplastic deflection
Material cyclic behaviour of panels at supersonic speeds, 84
Electrical conduction
Reliability and thermodynamic studies of an anisotropic conductive adhesive film (ACAF) prepared from epoxy/rubber resins, 357
Electrochemical impedance spectroscopy
A comparison between FSW and TIG welding techniques: modifications of microstructure and pitting corrosion resistance in AA 2024-T3 butt joints, 97
EN8 steel
Evaluation of non-uniform cooling effects for air-cooled forgings, 370
End milling
End milling of circular pockets to meet geometric tolerances, 339
Energy method
Wrinkling analysis for forming limit of tube bending processes, 363
Estimate
Methodology of machining costs evaluation for die and mould manufacturing, 237
Evaluation
A study of the effects of cutter path strategies and orientations in milling, 346
Experiment
Finite element modelling of unbending tests with damage approach and experimental verification, 246
Experimental measurement
An experimental study of residual stress induced by ultrasonic shot peening, 56
Experimental validation
Experimental and simulative results in sheet incremental forming on CNC machines, 176
Explosive welding
An investigation on the explosive cladding of 316L stainless steel-din-P355GH steel, 91
Extrusion
Reconstruction of 3D models from 2D orthographic views using solid extrusion and revolution, 291

Fatigue damage analysis
Material cyclic behaviour of panels at supersonic speeds, 84
Feature
Methodology of machining costs evaluation for die and mould manufacturing, 237
Fe–Cu alloy
Modelling of swelling of Fe–Cu compacts sintered at temperatures above the copper melting point, 131
Feedstock
Rheological properties of feedstocks prepared with steatite powder and polyethylene-based thermoplastic binders, 77
Feldspar
Effects of grinding of the feldspar in the sintering using a planetary ball mill, 284
FEM simulation
Experimental and simulative results in sheet incremental forming on CNC machines, 176
Fibre-reinforced plastics
Some observations in grinding unidirectional carbon fibre-reinforced plastics, 333
Finite element model
Machining of aluminum/silicon carbide particulate metal matrix composites. Part IV. Residual stresses in the machined workpiece, 23
Flexible manufacturing
The development of an optimum manufacturing and material selection process for the fabrication of labyrinth seal strips, 272
Flow stress
Prediction of nickel-base superalloys' rheological behaviour under hot forging conditions using artificial neural networks, 395
Force
Tool performance and attainable surface quality during the machining of aerospace alloys using self-propelled rotary tools, 266
Forging
Augmented upper bound element technique for prediction of temperature and strain in forgings, 162
Forging process
Geometric deviations in forging and cooling operations due to process uncertainties, 204
Forming limit
Wrinkling analysis for forming limit of tube bending processes, 363

Fracture toughness
An investigation on the explosive cladding of 316L stainless steel-din-P355GH steel, 91
Friction
The effect of roll roughness on the rolling parameters during cold rolling of an aluminum alloy, 144
Friction and wear
Dynamical experimental study of friction and wear behaviour of bovine cancellous bone sliding against a metallic counterface in a water lubricated environment, 389
Friction stir
A comparison between FSW and TIG welding techniques: modifications of microstructure and pitting corrosion resistance in AA 2024-T3 butt joints, 97

Geometric variations
Geometric deviations in forging and cooling operations due to process uncertainties, 204
GFRP laminates
Effect of workpiece vibration on drilling of GFRP laminates, 329
Green density
Modelling of swelling of Fe–Cu compacts sintered at temperatures above the copper melting point, 131
Grindability
Some observations in grinding unidirectional carbon fibre-reinforced plastics, 333
Grinding
Effects of grinding of the feldspar in the sintering using a planetary ball mill, 284
Grinding force
Some observations in grinding unidirectional carbon fibre-reinforced plastics, 333

Hard chromium
Alternative to chromium: characteristics and wear behavior of HVOF coatings for gas turbine shafts repair (heavy-duty), 43
Hard water
Cutting fluid emulsions produced by dilution of a cutting fluid concentrate containing a cationic/nonionic surfactant mixture, 215
Heating rate
Modelling of swelling of Fe–Cu compacts sintered at temperatures above the copper melting point, 131
Hot compression test
A new method for evaluation of friction in bulk metal forming, 136
Hot forging
Prediction of nickel-base superalloys' rheological behaviour under hot forging conditions using artificial neural networks, 395
Hot rolling
Development of hot rolling practices for lithographic sheet using a thermo-mechanical and microstructural model of a reversing hot finishing mill, 221
Hydrogen decrepitation
The influence of process parameters and alloy structure on the magnetic properties of NdDyFeBNb HD sintered magnets, 1

Incremental forming
Experimental and simulative results in sheet incremental forming on CNC machines, 176
Infiltration
Metal to ceramic joining via a metallic interlayer bonding technique, 257
Intelligent blank holding force (BHF) control
Blank holding force control in panel stamping process using a database and FEM-assisted intelligent press control system, 190
Interface temperature
Sliding wear and friction behaviour of Al–18% Si–0.5% Mg alloy, 323
Interfacial melting
Metal to ceramic joining via a metallic interlayer bonding technique, 257
Inverse solution
Evaluation of non-uniform cooling effects for air-cooled forgings, 370

Kerf
A study on kerf and material removal rate in wire electrical discharge machining based on Taguchi method, 316

316L stainless steel
An investigation on the explosive cladding of 316L stainless steel-din-P355GH steel, 91
Labyrinth seal strips
The development of an optimum manufacturing and material selection process for the fabrication of labyrinth seal strips, 272
Laser forming
Studies on laser forming of Ti–6Al–4V alloy sheet, 62
LCD packaging
Reliability and thermodynamic studies of an anisotropic conductive adhesive film (ACAF) prepared from epoxy/rubber resins, 357
Lithographic sheet
Development of hot rolling practices for lithographic sheet using a thermo-mechanical and microstructural model of a reversing hot finishing mill, 221

Material removal rate
A study on kerf and material removal rate in wire electrical discharge machining based on Taguchi method, 316
Material selection
The development of an optimum manufacturing and material selection process for the fabrication of labyrinth seal strips, 272
Mechanical activation
Effects of grinding of the feldspar in the sintering using a planetary ball mill, 284
Melt viscosity
Effects of mineral fillers on polystyrene melt processing, 185
Metal matrix composites
Machining of aluminum/silicon carbide particulate metal matrix composites. Part IV. Residual stresses in the machined workpiece, 23
Metal stamping layout
Evaluation of metal stamping layouts using an analytic hierarchy process method, 71
Metal–ceramic joining
Metal to ceramic joining via a metallic interlayer bonding technique, 257
Microstructure
Studies on laser forming of Ti–6Al–4V alloy sheet, 62
Influence of burnout process on pore structure and burnout microstructure in $BaTiO_3$-based Y5V materials, 276
Microstructures
Sliding wear and friction behaviour of Al–18% Si–0.5% Mg alloy, 323
Mild oxidative wear and severe wear
Sliding wear and friction behaviour of Al–18% Si–0.5% Mg alloy, 323
Milling
A study of the effects of cutter path strategies and orientations in milling, 346
Mineral fillers
Effects of mineral fillers on polystyrene melt processing, 185

Mineral seal oil
The effect of roll roughness on the rolling parameters during cold rolling of an aluminum alloy, 144
MLCCs
Influence of burnout process on pore structure and burnout microstructure in $BaTiO_3$-based Y5V materials, 276
Modelling
Study on compatibility of cement–superplasticiser assisted by multicriteria statistical optimisation, 197
Modelling and prediction
Roll load prediction—data collection, analysis and neural network modelling, 304
Moiré interferometry
An experimental study of residual stress induced by ultrasonic shot peening, 56
Mold steel machinability
A new approach for the characterization of machinability—application to steels for plastic injection molds, 66

NC
Wrinkling analysis for forming limit of tube bending processes, 363
Nd–Dy–Fe–B–Nb alloys
The influence of process parameters and alloy structure on the magnetic properties of NdDyFeBNb HD sintered magnets, 1
Neural network
Acoustic characterization and prediction of surface roughness, 127
Roll load prediction—data collection, analysis and neural network modelling, 304
Prediction of nickel-base superalloys' rheological behaviour under hot forging conditions using artificial neural networks, 395
Non-metallic minerals
Effects of grinding of the feldspar in the sintering using a planetary ball mill, 284

Optimization
A study on kerf and material removal rate in wire electrical discharge machining based on Taguchi method, 316
Orientation
A study of the effects of cutter path strategies and orientations in milling, 346
Orthogonal design
Roll load prediction—data collection, analysis and neural network modelling, 304
Orthographic views
Reconstruction of 3D models from 2D orthographic views using solid extrusion and revolution, 291

Parallel processing
Application of parallel processing in three-dimensional bulk forming finite element analysis, 106
Particle size
Modelling of swelling of Fe–Cu compacts sintered at temperatures above the copper melting point, 131
Performance
Performance and degradation analyses of traditional and ECCS canning tinplates in citric-citrate medium, 384
Pitting corrosion
A comparison between FSW and TIG welding techniques: modifications of microstructure and pitting corrosion resistance in AA 2024-T3 butt joints, 97
Plastic injection molds
A new approach for the characterization of machinability—application to steels for plastic injection molds, 66
Plastic strain ratios
The influence of plastic strain ratios on the numerical modelling of stretch forming, 116
Plates
Performance and degradation analyses of traditional and ECCS canning tinplates in citric-citrate medium, 384
Polarisation curve test
A comparison between FSW and TIG welding techniques: modifications of microstructure and pitting corrosion resistance in AA 2024-T3 butt joints, 97
Polymer processing
Effects of mineral fillers on polystyrene melt processing, 185
Polymeric binder
Rheological properties of feedstocks prepared with steatite powder and polyethylene-based thermoplastic binders, 77
Pore
Influence of burnout process on pore structure and burnout microstructure in $BaTiO_3$-based Y5V materials, 276
Porosity
Performance and degradation analyses of traditional and ECCS canning tinplates in citric-citrate medium, 384
Powder injection molding
Rheological properties of feedstocks prepared with steatite powder and polyethylene-based thermoplastic binders, 77
Powder metallurgy
Modelling of swelling of Fe–Cu compacts sintered at temperatures above the copper melting point, 131
Process parameters
Metal to ceramic joining via a metallic interlayer bonding technique, 257
Process planning
Methodology of machining costs evaluation for die and mould manufacturing, 237
Product quality
Blank holding force control in panel stamping process using a database and FEM-assisted intelligent press control system, 190
Production costs
Geometric deviations in forging and cooling operations due to process uncertainties, 204

Quality
Tool performance and attainable surface quality during the machining of aerospace alloys using self-propelled rotary tools, 266

Raw material
Effects of grinding of the feldspar in the sintering using a planetary ball mill, 284
Reconstruction
Reconstruction of 3D models from 2D orthographic views using solid extrusion and revolution, 291
Reliability
Reliability and thermodynamic studies of an anisotropic conductive adhesive film (ACAF) prepared from epoxy/rubber resins, 357
Repair
Alternative to chromium: characteristics and wear behavior of HVOF coatings for gas turbine shafts repair (heavy-duty), 43
Residual stress
Machining of aluminum/silicon carbide particulate metal matrix composites. Part IV. Residual stresses in the machined workpiece, 23
An experimental study of residual stress induced by ultrasonic shot peening, 56
Revolution
Reconstruction of 3D models from 2D orthographic views using solid extrusion and revolution, 291
Rheology
Rheological properties of feedstocks prepared with steatite powder and polyethylene-based thermoplastic binders, 77
Rigid-plastic FEM
A rigid-plastic finite element analysis of temper rolling process, 9

Rigid-viscoplastic FEM
Application of parallel processing in three-dimensional bulk forming finite element analysis, 106
Roll deformation
A rigid-plastic finite element analysis of temper rolling process, 9
Roll forming
The development of an optimum manufacturing and material selection process for the fabrication of labyrinth seal strips, 272
Roll load
Roll load prediction—data collection, analysis and neural network modelling, 304
Roll surface roughness
The effect of roll roughness on the rolling parameters during cold rolling of an aluminum alloy, 144
Rough milling
A new approach for the characterization of machinability—application to steels for plastic injection molds, 66

Schur complement
Application of parallel processing in three-dimensional bulk forming finite element analysis, 106
Self-excited panel motion
Material cyclic behaviour of panels at supersonic speeds, 84
Shape optimization
A new approach of die shape optimization for sheet metal forming processes, 35
Sheet metal forming
A new approach of die shape optimization for sheet metal forming processes, 35
Blank holding force control in panel stamping process using a database and FEM-assisted intelligent press control system, 190
Simulation
A new approach of die shape optimization for sheet metal forming processes, 35
Finite element modelling of unbending tests with damage approach and experimental verification, 246
Sintered magnets
The influence of process parameters and alloy structure on the magnetic properties of NdDyFeBNb HD sintered magnets, 1
Sliding speed
Sliding wear and friction behaviour of Al–18% Si–0.5% Mg alloy, 323
Sol–gel
Influence of pH value and solvent utilized in the sol–gel synthesis on properties of derived ZrO_2 powders, 299
Solid model
Reconstruction of 3D models from 2D orthographic views using solid extrusion and revolution, 291
Stability
Cutting fluid emulsions produced by dilution of a cutting fluid concentrate containing a cationic/nonionic surfactant mixture, 215
Steel
An experimental study of residual stress induced by ultrasonic shot peening, 56
Stochastic simulation
Stochastic simulation of active grain density in abrasive flow machining, 17
Strain evolution
Augmented upper bound element technique for prediction of temperature and strain in forgings, 162
Stretch forming
The influence of plastic strain ratios on the numerical modelling of stretch forming, 116
Strip-layout index
Evaluation of metal stamping layouts using an analytic hierarchy process method, 71
Surface integrity
Some observations in grinding unidirectional carbon fibre-reinforced plastics, 333
Surface roughness
Acoustic characterization and prediction of surface roughness, 127
Sweeping simplex method
A new approach of die shape optimization for sheet metal forming processes, 35
Swelling modelling
Modelling of swelling of Fe–Cu compacts sintered at temperatures above the copper melting point, 131
Synthesis effect
Influence of pH value and solvent utilized in the sol–gel synthesis on properties of derived ZrO_2 powders, 299

Taguchi method
A study on kerf and material removal rate in wire electrical discharge machining based on Taguchi method, 316
Taguchi's techniques
Dynamical experimental study of friction and wear behaviour of bovine cancellous bone sliding against a metallic counterface in a water lubricated environment, 389
Temper rolling
A rigid-plastic finite element analysis of temper rolling process, 9
Temperature
Temperature profiles and conditions for thermal fatigue cracking in brass die casting dies, 228
Effect of workpiece vibration on drilling of GFRP laminates, 329
Temperature distribution
Augmented upper bound element technique for prediction of temperature and strain in forgings, 162
Tensile shear strength
An investigation on the explosive cladding of 316L stainless steel-din-P355GH steel, 91
Thermal fatigue
Temperature profiles and conditions for thermal fatigue cracking in brass die casting dies, 228
Thermal stress
Temperature profiles and conditions for thermal fatigue cracking in brass die casting dies, 228
Thermo-mechanical and microstructural model
Development of hot rolling practices for lithographic sheet using a thermo-mechanical and microstructural model of a reversing hot finishing mill, 221
Three-roll bending
The development of an optimum manufacturing and material selection process for the fabrication of labyrinth seal strips, 272
Thrust
Effect of workpiece vibration on drilling of GFRP laminates, 329
Ti–6Al–4V alloy
Studies on laser forming of Ti–6Al–4V alloy sheet, 62
Time
Methodology of machining costs evaluation for die and mould manufacturing, 237
Tolerances
End milling of circular pockets to meet geometric tolerances, 339
Tool deflection
End milling of circular pockets to meet geometric tolerances, 339
Tool wear
Effect of workpiece vibration on drilling of GFRP laminates, 329
Topography
Stochastic simulation of active grain density in abrasive flow machining, 17
Trade-off
Geometric deviations in forging and cooling operations due to process uncertainties, 204

Trybology
Effects of grinding of the feldspar in the sintering using a planetary ball mill, 284
Tube bending
Wrinkling analysis for forming limit of tube bending processes, 363
Tungsten inert gas
A comparison between FSW and TIG welding techniques: modifications of microstructure and pitting corrosion resistance in AA 2024-T3 butt joints, 97

Ultra-low-carbon steel
An examination of the accumulative roll-bonding process, 154
Unbending
Finite element modelling of unbending tests with damage approach and experimental verification, 246
Uncertainties
Geometric deviations in forging and cooling operations due to process uncertainties, 204
Upper bound element technique
Augmented upper bound element technique for prediction of temperature and strain in forgings, 162
Upper-bound analysis
A new method for evaluation of friction in bulk metal forming, 136

Wear
Alternative to chromium: characteristics and wear behavior of HVOF coatings for gas turbine shafts repair (heavy-duty), 43
Tool performance and attainable surface quality during the machining of aerospace alloys using self-propelled rotary tools, 266
WEDM
A study on kerf and material removal rate in wire electrical discharge machining based on Taguchi method, 316
Welding
A comparison between FSW and TIG welding techniques: modifications of microstructure and pitting corrosion resistance in AA 2024-T3 butt joints, 97
Workpiece vibration
Effect of workpiece vibration on drilling of GFRP laminates, 329
Wrinkling
Wrinkling analysis for forming limit of tube bending processes, 363

Yield criterion
The influence of plastic strain ratios on the numerical modelling of stretch forming, 116

ZrO_2
Influence of pH value and solvent utilized in the sol–gel synthesis on properties of derived ZrO_2 powders, 299